NON-TECHNICAL SUMMARY

Unit 21 Brindley Road, Dodwells Bridge Industrial Est, Hinckley, Leicestershire, LE10 3BY

Thistle Loos Limited

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1.0	15/04/2024	TH	IA	Internal Draft
1.1	23/04/2024	IA	IA	Application copy
1.2	06/09/2024	IA	IA	EA comments

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List of Tables

1 Introduction

1.1 Note

1.1.1 This Non-Technical Summary (NTS) accompanies a new bespoke permit application which is operated by Thistle Loos Limited. The site is situated at Unit 21 Brindley Road, Dodwells Bridge Industrial Est, Hinckley, Leicestershire, LE10 3BY.

1.1.2 Thistle Loos Limited are a provider of portable toilets throughout the UK, as a by-product of the service, they are required to be cleared regularly. Thistle Loos Limited empties toilets utilising its own tankers and bringing the portable toilet waste back to their facility at Unit 21 Brindley Road, Dodwells Bridge Industrial Est, Hinckley, Leicestershire, LE10 3BY for further processing. The waste will be treated with the remaining liquid waste discharged to combined sewer, with consent from the relevant waste water provider.

1.1.3 Collected waste will not typically be stored at the site as tankers will arrive at the site and directly discharge into the treatment plant. Further details of the treatment process are detailed in Section 3.

2 Application proposals

2.1 Variation proposals

2.1.1 The proposed variations to this permit are clearly set out below:

i) New bespoke activity for the physical and chemical treatment of waste (Section 1.16.14 of the charging tables).

ii) Annual throughput of 7,000 tonnes per annum (Approx 7,000,000 million litres per annum)

3 Application processes

3.1 Process Description

3.1.1 Below shows the procedure of the treatment operations carried out on site:

WET WASTE TREATMENT PLANT

a) The load will be pumped directly from tankers into Coarse Screening Container (CSC), Smaller vehicles will be required to discharge at the small vehicle off load point & into the Low Height Reception Tank (This is a closed tank), this waste will then be screened before the liquid part is pumped into the Coarse screening container (CSC).

b) The load will be processed through the Coarse Screening Container (CSC). The CSC consists of a closed unit equipped with two full sized sets of screening grids which work by trapping debris whilst the sludge is decanted through them under gravity. The purpose of the CSC is to screen out crude debris from sludge and wastewater streams prior to it reaching the pump.

c) The load will be transferred from the CSC to the dewatering container via the Polymer Dosing Unit (PDU). The PDU is a mixing, dosing, and pumping unit. The load is injected with polymer causing water and solid fractions to separate, known as flocculation. Once flocculated, the load will enter the dewatering container.

d) The dewatering container consists of a closed container comprising filtration screens along both sides and a filtration screen running through the centre, the screens hold back flocculated solids which allows a thickened wet sludge to form, at the same time this allows filtrate to pass through. The filtrate will then be discharged to combined sewer via the transferer pump.

e) Any remaining solid waste i.e. sludges will be pumped into a tanker at the thickened sludge removal point and taken to the correct disposal plant for further treatment.

3.1.2 Please refer to the Environmental Risk Assessment (Doc Ref. 3427-001-D) for site specific control implemented at the site to ensure that there is no risk to the environment i.e. protected species, habitats, designated sites, wildlife sites etc…

3.1.3 Process flow diagrams are shown in Appendix I of this NTS, these are also detailed within the site-specific EMS. Product specification sheets can be provided on request.

3.2 Activities

3.2.1 The EP is required for the storage prior to removal and treatment of waste.

3.2.2 The proposed operations to be permitted on site for the treatment activity are shown below and no more than 7,000 tonnes of waste per annum will be accepted under this activity.

Table 3.1 – Activities Table

Table S1.1 activities	
Description of activities for waste operations	**Limits of activities**
R3: Recycling/reclamation of organic substances which are not used as solvents R5: Recycling/reclamation of other inorganic materials R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced) D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	Treatment of wastes shall be limited to sorting, compacting, separation, screening, blending, washing, dewatering of waste for disposal.

4 Proposed EWC codes

4.1.1 Proposed EWC codes

4.1.2 The following EWC codes are proposed to be included on the permit:

EUROPEAN WASTE CATALOGUE - COMMISSION DECISION 2000/532/EC	
CODE	**WASTE TYPE**
16	**WASTES NOT OTHERWISE SPECIFIED ON THE LIST**
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 03	other municipal wastes
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning

5 Documentation and fees

5.1 Application type

5.1.1 The following table sets out the fees required for the application.

Table 5.1 – Base Application Fee Table

EPR Charging Scheme Ref	EPR Charging Scheme Ref & Description	Type of application (Ref)	Fee
1.16.14	Physical and chemical treatment of waste	New application	£7,930
		TOTAL	£7,930

5.2 Documentation

5.2.1 The following table sets out the documentation Thistle Loos Limited will be submitting with this application which is consistent with the pre-application advice provided by the Environment Agency.

Table 5.2 – Additional Application Fees Table - Charges for plans and assessments

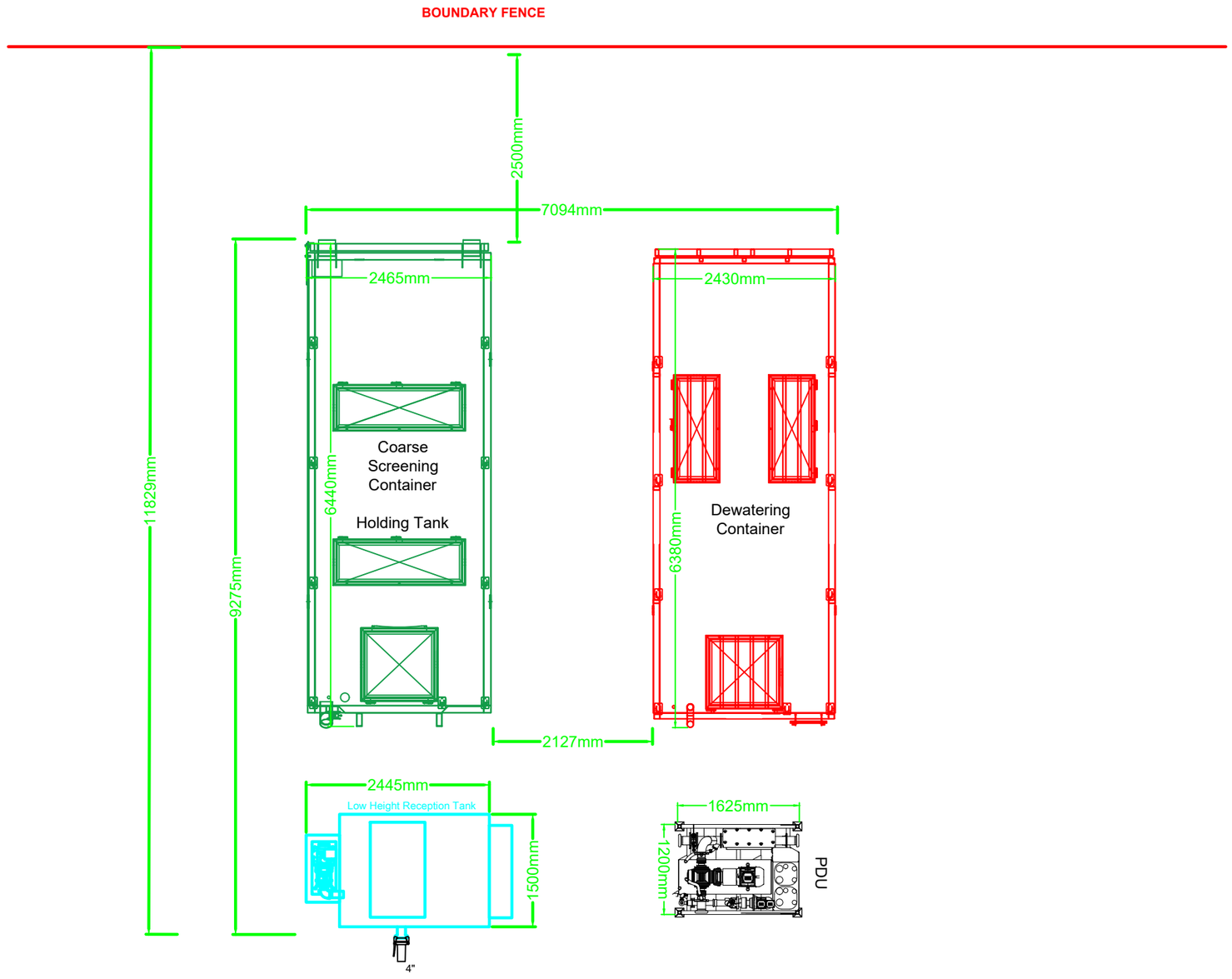
General	Consideration	Document & Ref	Fee
Odour Management Plan	Required due to site operations	3427-001-G	£1,246
		TOTAL	£1,246

5.3 Baseline fees

5.3.1 Based on the above tables, the total fee payable to the Environment Agency on submission will be **£9,176**

Appendix I

Process Flows



THIRD ANGLE PROJECTION

SCALE DO NOT SCALE DRAWING

ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED.

UNLESS OTHERWISE STATED GENERAL TOLERANCES ARE:
LINEAR +/- 1mm UP TO 1000mm
+/- 2mm UP TO 3000mm
ANGULAR +/- 1 DEG.

GENERAL NOTES:

WELDING:
CARBON STEEL WELDING IN ACCORDANCE WITH BS7475.
STAINLESS STEEL WELDING IN ACCORDANCE WITH BS EN 288.

FIXINGS:
SIZES AS DRAWINGS.
BOLTS, NUTS, WASHERS BZP UNLESS STATED.
RIVETS ALUMINIUM UNLESS STATED.

SITE LAYOUT WITH DIMENSIONS

CLIENT: THISTLE LOOS

ORDER NO:

DATE: 20/5/2024

APPROVAL SIGNITURE:

PRINT NAME:

Dexter Watson LTD
BROAD OAK FARM
SUTTON-ON-FOREST
YORK
YO61 1ER

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NONE HAZARDOUS SYSTEM - DEWATERING PROCESS FLOW CHART

Dexter Watson